

Logistics, Objectives and Expectations

IAEA-KINS Workshop on the Emergency Preparedness and Response to Nuclear and Radiological Emergencies

19 - 23 June 2023, Daejeon, Republic of Korea

Purpose of the training

- To train participants on the concepts and goals of emergency preparedness and response
- To discuss the main steps in development of national capabilities and based on IAEA safety standards, technical guidelines, tools and training material.
- To raise awareness about the IAEA's role in enhancing preparedness of the Member States to respond to radiological emergencies



Training Course Programme - 1



19 June 2023 (Monday)

Time	Subject	Presenter/Facilitator
9:30 AM	Opening Session:	<i>TBD, Korea Institute of</i>
10:00 AM	Logistics. Objectives and expectations	<i>TBD, KINS (logistics)</i>
10:10 AM	BREAK	
10:30 AM	Role of IAEA in emergency preparedness and response	<i>Ms Muzna Assi</i>
11:15 AM	National radiological EPR framework and radiation emergency technical advice	<i>TBD, KINS</i>
12:15 PM	LUNCH BREAK	
1:15 PM	IAEA Safety Standards in emergency preparedness and response with overview of GSR Part 7	<i>Ms Khadija Bendam,</i>
2:15 PM	Roles and responsibilities in EPR	<i>Ms N. Belamaric, Croatia</i>
2:45 PM	BREAK	
3:05 PM	Planning basis, hazard assessment and emergency preparedness categories	<i>Ms Khadija Bendam</i>
4:20 PM	Working Session on Hazard Assessment	<i>All participants</i>

20 June 2023 (Tuesday)

Time	Subject	Presenter/Facilitator
9:30 AM	Radiological impact assessment with AtomCARE	<i>TBD, KINS</i>
10:30 AM	BREAK	
10:50 AM	Protection Strategy for a Nuclear or Radiological Emergency	<i>Ms Khadija Bendam</i>
12:00 PM	LUNCH BREAK	
1:00 PM	Working Session on Protection Strategy	<i>All participants</i>
2:30 PM	BREAK	
2:50 PM	Concept of operations for EPC I-V	<i>Ms N. Belamaric</i>
4:20 PM	National presentations 12 min each (Bangladesh, Burkina Faso, Ghana, Kuwait, Malaysia)	<i>All participants</i>

21 June 2023 (Wednesday)

Time	Subject	Presenter/Facilitator
9:30 AM	Response Integration and Coordination during Emergencies. UCCS	<i>Ms Khadija Bendam</i>
10:30 AM	BREAK	
10:50 AM	Identifying, notifying, and activating	<i>Ms N. Belamaric</i>

Training Course Programme - 2



21 June 2023 (Wednesday)

11:35 AM	Mitigatory actions	<i>TBC, IAEA IEC</i>
12:20 PM	LUNCH BREAK	
1:20 PM	National presentations 12 min each (Morocco, Philippine, Saudi Arabia, Singapore, Sudan)	<i>All participants</i>
2:10 PM	Protection of emergency workers and helpers	<i>Ms Khadija Bendam</i>
2:55 PM	BREAK	
3:15 PM	Communication with the public	<i>Ms N. Belamaric</i>
4:00 PM	Working Session on Communication with the Public	<i>All participants</i>

22 June 2023 (Thursday)

Time	Subject	Presenter/Facilitator
9:30 AM	Managing the medical response to a nuclear or radiological emergency	<i>Ms N. Belamaric</i>
10:15 AM	Emergency monitoring	<i>Ms Khadija Bendam</i>
11:00 AM	BREAK	
11:20 AM	Managing radioactive waste in a radiation emergency	<i>Ms N. Belamaric</i>
12:00 PM	LUNCH BREAK	
1:00 PM	National presentations 12 min each (Thailand, UAE, Vietnam, Yemen)	<i>All participants</i>
2:00 PM	Terminating an emergency	<i>Ms Khadija Bendam</i>
2:40 PM	BREAK	
3:00 PM	Plans and procedures for emergency response	<i>Ms Khadija Bendam</i>
3:45 PM	Developing and Implementing a Training Programme	<i>Ms Muzna Assi</i>
4:30 PM	Review and inspection on EPR and emergency drill	<i>TBD, KINS</i>

23 June 2023 (Friday)

Time	Subject	Presenter/Facilitator
9:30 AM	Drills and exercises	<i>Ms N. Belamaric</i>
10:10 AM	International Assistance	<i>Ms Muzna Assi</i>
11:10 AM	BREAK	
11:30 AM	Working Session on self-assessment of national emergency arrangements	<i>All participants</i>
12:30 PM	Summary and discussion	<i>All participants</i>
1:00 PM	Closing	<i>Ms Muzna Assi, TBD KINS</i>

Target audience

- Professionals with sufficient practical experience in emergency preparedness and response



Expected outcome

- By the end of the training course, participants will have a more comprehensive **knowledge and understanding** of preparedness and response to nuclear and radiological emergency irrespective of the initiator including the international framework of EPR



What can you expect?



Presentations mainly driven by
GSr Part 7



Points of discussion during presentations



Focused presentations with key points



Where to get more information



Working Sessions in which to be creative

Key elements to bear in mind...

- Lectures starts highlighting the pertinent IAEA GSR Part 7 requirement(s) related to the subject
- Performance Indicators:
 - Module Feedback & Workshop Feedback
 - Group Work Presentations and Case Study Analysis
 - Participants engagement and discussions



Parking Lot Rules



- Use a sticker for your request
- Do your request after the lecture or training activity
- Your request will be met at the beginning next day
- Hold on, I need more: **if you need more explanations about something**
- This was helpful: **when you recognize that a subject or point has been useful**
- I have a question about: **to ask any question about something**
- Aha! Now I understand: **when you have understood**

The Training

- Lesson formats
 - Lectures
 - Working sessions
 - Case studies
 - Practical
- Assessments
- Feedback

*This training is
interactive. We want
you to discuss and
challenge!*



They DO occur!

**We have to be
PREPARED
to respond!**

The Background to Emergency Preparedness and Response

- Despite **precautions** that are taken during
 - Design
 - Operations of nuclear facilities
 - Conduct of nuclear activities
- **Possibility** remains that
 - Natural disaster
 - Failure
 - Intentional act or
 - Mishap
- ***Leads to an emergency!***



Image courtesy IAEA

Goals of Emergency Preparedness

- An adequate **capability** is in place for an effective response in a nuclear or radiological emergency
 - At the operating organization
 - At local, regional and national levels and
 - Where appropriate, at the international level
- An integrated set of **infrastructural** elements is in place, like:
 - Authority and responsibilities
 - Organization and staffing
 - Coordination
 - Plans and procedures
 - Tools, equipment and facilities
 - Training, drills and exercises, and
 - A management system



Goals of Emergency Response

- To **regain control** of the situation and to mitigate consequences
- To **save lives**
- To avoid or to minimize severe **deterministic** effects
- To render **first aid**
 - Provide critical medical treatment
 - Manage the treatment of radiation injuries
- To reduce the risk of **stochastic** effects



Images courtesy IAEA

Goals of Emergency Response (cont.)

- To keep the public **informed** and maintain public **trust**
- And to the extent practicable:
 - To **mitigate** non-radiological consequences
 - To **protect** property and the environment
 - To prepare for the **resumption** of normal social and economic activity



Experience Shows

- Be **prepared for longer response** if needed
- In many emergencies criteria for **long term actions were not justified**
 - May have done more harm than good
 - Were developed at the time of emergency
 - Resulting in
 - Emotional atmosphere
 - Loss of trust
 - Political pressure
- Develop **criteria** for long term action in advance



CLP4NET and its functionalities

Cyber Learning Platform for Network Education and Training

- ✓ Online platform that allows users to find educational resources easily:
 - **Instructor-led LMS:** to support and enhance instructor-led training courses for closed groups of participants
 - **Self-directed LMS:** to provide e-learning self-study materials to a wider audience
- ✓ More efficient and sustainable way to deliver training materials and to collect feedback from the participants

MISSION:

CLP4NET aims to facilitate sustainable education in the nuclear sector by empowering web-based development and dissemination of high quality e-learning resources and learning environments, in a way that is cost-effective, scalable & easy to use.

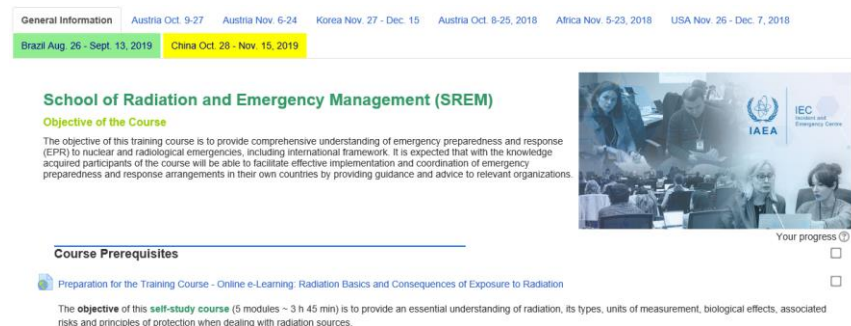
RATIONALE:

CLP4NET aims to help Member States to ensure high standards of nuclear education and training.



Materials and activities on CLP4NET

- **Agenda AND General Information:** Workshop Information, List of Participants and Picture Folder
- **Training Materials:** Presentations, Working Sessions and Case Studies
- **Discussion Forum:** discuss any topic and/or upload materials



- **Feedback:**

- **Daily Feedback:**

- By the end of each day the participants are requested to provide feedback (~ 5 min) for each module by filling the survey on **CLP4NET**; N/A option for missing a module/presentation
 - Opportunity to make written comments and suggestions at the end of the survey – *other comments* box

- **General Feedback:**

- At the end of the workshop the participants are requested to provide feedback (~ 15 min) by filling the questionnaire on **CLP4NET** which is open until Sunday, one week following the end of the course

- **Lecturer Feedback:**

- The lecturers are requested to provide feedback (~ 15 min) by filling the survey on **CLP4NET** which is open until Sunday, one week following the end of the course

Relevant Documents

- Method for Developing Arrangements for Response to a Nuclear or Radiological Emergency (EPR-Method), IAEA, Vienna (2021)
- Preparedness and Response for a Nuclear or Radiological Emergency, IAEA Safety Standards Series No GSR Part 7, IAEA, Vienna (2015)

Have interesting,
useful and
productive week
with a bit of fun

Where to Get More Information



IEC
Incident and
Emergency Centre

Prepared to Respond



Image courtesy IAEA

iec.iaea.org
iec-information@iaea.org
@IAEAIEC

Thank you!

Ms. Muzna Assi

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